



11-24-03

1634

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Cantor *et al.***

Serial No.: 10/645,816

Conf. No.: Unassigned

Customer No.: 24961

Filed: August 20, 2003

For: **USE OF NUCLEOTIDE ANALOGS IN
THE ANALYSIS OF OLIGONUCLEOTIDE
MIXTURES AND IN HIGHLY
MULTIPLEXED NUCLEIC ACID
SEQUENCING**

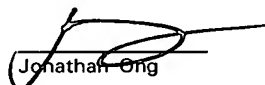
Art Unit: 1634

Examiner: Unassigned

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Jonathan Ong**TRANSMITTAL LETTER**

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

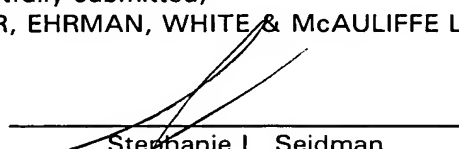
Transmitted herewith is an Information Disclosure Statement, Forms PTO-1449 (26 pages), for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

- (X) The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

* * *

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:


Stephanie L. Seidman
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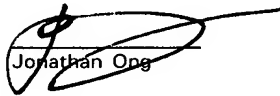
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Jonathan Ong

**INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE
WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits of the above-captioned application. Thus, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (26 pages) is provided herewith in connection with the above-captioned application. The cited documents listed on Form PTO-1449 are not provided herewith as they have been previously provided in connection with U.S. Serial No. 09/880,988

USSN 10/645,816
CANTOR, *et al.*
INFORMATION DISCLOSURE STATEMENT

which is relied upon for an earlier filing date in accordance with 35 U.S.C. §120.

The documents listed on the Forms PTO-1449 are in the English language with the exception of items HN, HO, IA, IB, . Items HN, HO, IA and IB (German Patent Application Nos. DE 19628178, 19731479, and German Patent numbers 4431174 and 4438630) are in the German language, and are provided with English language Derwent abstracts (items LZ, MF, MB and MA respectively) describing the subject matter. Items HE, HX, and IW (European Patent No. 0360676, French Patent No. 2749662 and International Patent Application WO 9507361) are in the French language, and are provided with English language Derwent abstracts (items ME, MD, and MC respectively). Item HX (French Patent 2597260) which is in the French Language is provided with a Certified English language translation (Item LI). Items HC, HM, HP, HY, and JU (German Patents DE 19617011, 19618032, 19754978, 3221681 and International Patent Application WO 9803257 respectively) which are in the German Language are provided with an English language equivalent or a Certified English language translation (Items DZ, HU, HV, LG and LH respectively). Items HR, HZ, and IC (Japanese Patent Nos. JP 2215399, 4178359 and 63230086 respectively), which are in the Japanese language, are provided with English language Derwent abstracts (items LY, LX, and MG respectively) describing the subject matter. Elov et al. reference (item ML), which is in the Russian language, is supplied with a Certified English language translation, (item LJ). Item QD, (article by Yoshida et al.) is in the Japanese language and contains an English language abstract. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common:

<u>U.S.S.N.</u>	<u>Filing Date</u>	<u>Docket No.</u>
08/947,801	10/08/97	2001B
08/786,988	01/23/97	2001D

USSN 10/645,816
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<u>U.S.S.N.</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/364,774	07/30/99	2401E
09/395,409	09/14/99	2403D
09/880,988	06/13/01	2408
09/678,620	10/02/00	2023B
09/297,575	05/03/99	2001US
09/364,774	07/30/99	2001E
10/136,829	04/30/02	2402D
10/428,254	05/01/03	2065
60/377,852	05/03/02	P2065
60/453,408	03/07/03	P2065B

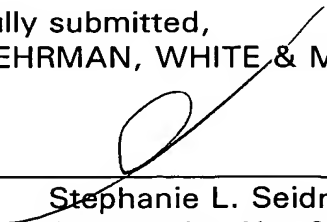
Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

* * *

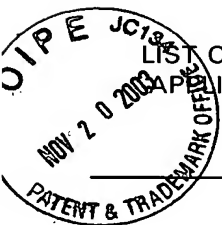
Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:


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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	0	0	0	5	4	7	8	01/17/02	Hillenkamp	250	288	01/14/00
	B	3	5	5	3	4	5	2	01/05/71	Tiernan et al.	250	41.9	02/17/69
	C	3	7	7	6	7	0	0	12/04/73	Gallant	422	65	12/08/71
	D	3	8	0	7	2	3	5	04/30/74	Lerkovitz	73	863.32	10/06/72
	E	3	9	3	1	5	1	6	01/06/76	Fletcher et al.	250	281	08/30/74
	F	4	0	4	7	0	3	0	09/06/77	Lobach	250	281	09/24/75
	G	4	0	7	6	9	8	2	02/28/78	Ritter et al.	250	288	10/06/76
	H	4	1	3	9	3	4	6	02/13/79	Rabbani	422	56	11/28/77
	I	4	2	1	4	1	5	9	07/22/80	Hillenkamp et al.	250	288	08/31/78
	J	4	4	6	1	3	2	8	07/24/84	Kenney	422	100	06/04/82
	K	4	5	1	5	7	8	1	05/07/85	Torrence et al.	514	46	02/23/83
	L	4	5	5	4	8	3	9	11/26/85	Hewett et al.	73	864.16	10/14/83
	M	4	5	8	2	7	8	9	04/15/86	Sheldon III et al.	435	6	12/18/84
	N	4	6	0	4	3	6	3	10/18/99	Newhouse et al.	436	177	08/05/86
	O	4	6	2	5	1	1	2	11/25/86	Yoshida	250	287	06/21/84
	P	4	6	6	3	9	4	4	05/12/87	Bernius et al.	62	51.1	07/12/85
	Q	4	7	1	1	9	5	5	12/08/87	Ward et al.	536	25.32	05/23/83
	R	4	7	3	3	0	7	3	03/22/88	Becker et al.	250	288	05/16/86
	S	4	7	4	0	6	9	2	04/26/88	Yamamoto et al.	250	288	06/12/86
	T	4	7	7	9	4	6	7	10/25/88	Rainin et al.	73	863.32	01/28/87
	U	4	8	0	6	5	4	6	02/21/89	Carrico et al.	536	27	09/30/85
	V	4	8	2	6	3	6	0	05/02/89	Iwasawa et al.	406	51	02/25/87

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
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Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	W	4	8	5	1	0	1	8	07/25/89	Lazzari et al.	55	356	11/20/87
	X	4	8	7	7	7	4	5	10/31/89	Hayes et al.	436	166	03/14/89
	Y	4	8	8	2	1	2	7	11/21/89	Rosenthal et al.	422	50	11/12/87
	Z	4	9	2	0	2	6	4	04/24/90	Becker	250	289	01/17/89
	AA	4	9	2	5	6	2	9	05/15/90	Schramm	422	82.05	07/28/88
	AB	4	9	5	2	5	1	8	08/28/90	Johnson et al.	436	518	12/28/87
	AC	4	9	8	8	6	1	7	01/29/91	Landegren et al.	435	6	03/25/88
	AD	5	0	0	0	9	2	1	03/19/91	Hanaway et al.	422	100	02/08/90
	AE	5	0	0	3	0	5	9	03/26/91	Brennan	536	27	06/20/88
	AF	5	0	5	9	6	5	4	10/22/91	Hou et al.	525	54.1	02/16/89
	AG	5	0	6	4	7	5	4	11/12/91	Mills	436	6	11/13/87
	AH	5	1	0	8	7	0	3	04/28/92	Pfost et al.	422	65	05/10/91
	AI	5	1	1	8	6	0	5	06/02/92	Urdea et al.	436	6	09/29/88
	AJ	5	1	1	8	9	3	7	06/02/92	Hillenkamp et al.	250	282	08/21/90
	AK	5	1	2	2	3	4	2	06/16/92	McCulloch et al.	422	65	07/12/89
	AL	5	1	3	5	8	7	0	08/04/92	Williams et al.	436	173	06/01/90
	AM	5	1	4	3	4	5	1	09/01/92	Millgard	374	25	05/20/91
	AN	5	1	4	3	8	5	4	09/01/92	Pirrung et al.	436	518	03/07/90
	AO	5	1	4	9	6	2	5	09/22/92	Church et al.	435	6	03/28/90
	AP	5	1	6	4	5	9	4	11/07/92	Thompson et al.	250	288	10/22/91
	AQ	5	1	7	5	2	0	9	12/29/92	Beattie et al.	525	54.11	01/31/91
	AR	5	1	7	5	4	3	0	12/29/92	Enke et al.	250	282	05/17/91

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	AS	5	1	9	8	5	4	0	03/30/93	Koster	536	25.3	06/25/84
	AT	5	2	0	2	2	3	1	04/13/93	Drmanac et al.	435	6	06/18/91
	AU	5	2	1	0	4	1	2	05/11/93	Levis et al.	648	282	01/31/91
	AV	5	2	2	1	5	1	8	06/22/93	Mills	422	62	08/13/91
	AW	5	2	3	7	0	1	6	08/17/93	Ghosh et al.	525	329.4	01/05/89
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	AY	5	2	4	7	1	7	5	09/21/93	Schoen et al.	250	281	05/27/92
	AZ	5	2	6	2	1	2	8	11/16/93	Leghton et al.	422	100	10/23/89
	BA	5	2	7	3	7	1	8	12/28/93	Skold et al.	422	101	08/07/91
	BB	5	2	8	8	6	4	4	02/22/94	Beavis et al.	436	94	11/13/92
	BC	5	3	0	0	7	7	4	04/05/94	Buttrill	250	287	04/25/91
	BD	5	3	0	6	6	1	9	04/26/94	Edwards et al.	435	6	06/22/93
	BE	5	3	2	5	0	2	1	06/28/94	Duckworth et al.	315	111.51	09/11/92
	BF	5	3	3	8	6	8	8	08/16/94	Deeg et al.	436	180	02/19/93
	BG	5	3	5	0	6	7	6	09/27/94	Oberhardt et al.	435	13	05/17/93
	BH	5	3	6	3	8	8	3	11/15/94	McConnell et al.	139	450	02/18/93
	BI	5	3	6	4	7	6	0	11/15/94	Chu et al.	435	6	09/22/92
	BJ	5	3	6	5	0	6	3	11/15/94	Kaesdorf et al.	250	288	06/21/93
	BK	5	3	8	1	0	0	8	01/10/95	Tanner et al.	250	288	05/11/93
	BL	5	3	8	2	7	9	3	01/17/95	Weinberg et al.	250	288	01/06/92
	BM	5	4	0	3	7	1	1	04/04/95	Walder et al.	435	6	07/06/93
	BN	5	4	2	7	9	2	9	06/27/95	Richards et al.	435	91.2	05/03/93

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	BO	5	4	3	6	1	4	3	07/25/95	Hyman	435	91.2	12/23/92
	BP	5	4	3	9	6	4	9	08/08/95	Tseung <i>et al.</i>	422	99	09/23/93
	BQ	5	4	4	0	1	1	9	08/08/95	Labowsy	250	282	03/30/94
	BR	5	4	5	3	6	1	3	09/26/95	Gray <i>et al.</i>	250	281	10/21/94
	BS	5	4	5	9	0	3	9	10/17/95	Modrich <i>et al.</i>	435	6	03/18/94
	BT	5	4	9	8	5	4	5	03/12/96	Vestal	436	47	07/21/94
	BU	5	5	0	3	9	8	0	04/96	Cantor	435	6	10/17/94
	BV	5	5	0	8	1	6	9	04/16/96	Deugau <i>et al.</i>	435	6	10/28/94
	BW	5	5	1	0	2	7	0	04/23/96	Fodor <i>et al.</i>	436	518	09/30/92
	BX	5	5	1	2	2	9	5	04/30/96	Kornberg <i>et al.</i>	424	450	11/10/94
	BY	5	5	1	2	4	3	9	04/30/96	Hornes <i>et al.</i>	435	6	07/06/94
	BZ	5	5	1	4	5	4	8	05/07/96	Krebber <i>et al.</i>	435	6	02/17/94
	CA	5	5	2	5	4	6	4	06/11/96	Drmanac <i>et al.</i>	435	6	02/28/94
	CB	5	5	3	2	2	2	7	07/02/96	Golub <i>et al.</i>	514	152	12/21/94
	CC	5	5	3	8	8	9	7	07/23/96	Yates <i>et al.</i>	436	89	03/14/94
	CD	5	5	4	7	8	3	5	08/20/96	Köster	435	6	01/06/94
	CE	5	5	6	3	4	1	0	10/08/96	Mullock	250	288	03/03/94
	CF	5	5	7	8	4	4	4	11/26/96	Edwards <i>et al.</i>	435	6	12/20/93
	CG	5	5	8	0	4	3	4	12/03/96	Robotti <i>et al.</i>	204	451	02/29/96
	CH	5	5	8	0	7	3	3	12/03/96	Levis <i>et al.</i>	435	6	09/06/94
	CI	5	5	8	9	1	3	6	12/31/96	Northrup <i>et al.</i>	422	102	06/20/95
	CJ	5	5	9	9	5	0	0	02/04/97	Jones	422	62	05/10/95

EXAMINER

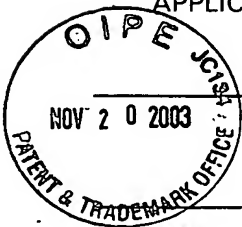
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	CK	5	6	0	1	9	8	2	02/11/97	Sargent <i>et al.</i>	435	6	02/07/95
	CL	5	6	0	5	6	6	2	02/25/97	Heller	422	68.1	11/01/93
	CM	5	6	0	5	7	9	8	02/25/97	Köster	435	6	03/17/95
	CN	5	6	0	7	9	1	2	03/04/97	Samejima <i>et al.</i>	510	411	09/09/92
	CO	5	6	0	9	9	0	7	03/11/97	Natan	427	2.12	09/20/95
	CP	5	6	2	2	8	2	4	04/22/97	Köster	435	6	02/10/95
	CQ	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	06/05/95
	CR	5	6	3	3	4	9	6	05/27/97	Sakairi <i>et al.</i>	250	288	03/17/95
	CS	5	6	3	5	7	1	3	06/03/97	Labowsky	250	282	06/16/95
	CT	5	6	4	3	8	0	0	07/01/97	Tarantino <i>et al.</i>	436	518	09/21/95
	CU	5	6	5	0	4	8	9	07/22/97	Lam <i>et al.</i>	530	334	06/19/91
	CV	5	6	5	4	1	5	0	08/05/97	King <i>et al.</i>	435	6	06/07/95
	CW	5	6	6	3	2	4	2	03/31/95	Ghosh <i>et al.</i>	525	329.4	09/02/92
	CX	5	6	6	5	9	6	7	09/09/97	Coxon <i>et al.</i>	250	287	05/24/96
	CY	5	6	7	0	3	2	2	09/23/97	Eggers <i>et al.</i>	435	6	06/01/95
	CZ	5	6	7	0	3	8	1	09/23/97	Jou <i>et al.</i>	436	518	05/08/95
	DA	5	6	7	7	1	9	5	10/14/97	Winker <i>et al.</i>	436	518	11/20/92
	DB	5	6	8	3	8	8	1	11/04/97	Skiena <i>et al.</i>	435	6	10/20/95
	DC	5	6	8	6	6	5	6	11/11/97	Amirav <i>et al.</i>	73	23.41	02/27/96
	DD	5	6	8	8	6	4	2	11/18/97	Chrissey <i>et al.</i>	435	6	12/01/94
	DE	5	6	9	1	1	4	1	11/25/97	Köster	435	6	06/06/95
	DF	5	6	9	3	4	6	3	12/02/97	Edwards <i>et al.</i>	435	6	12/23/92

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Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	DG	5	7	0	0	6	4	2	12/23/97	Monforte, <i>et al.</i>	435	6	05/22/95
	DH	5	7	1	0	0	2	8	01/20/98	Eyal <i>et al.</i>	435	91.1	10/04/94
	DI	5	7	1	6	7	8	0	02/10/98	Edwards <i>et al.</i>	435	6	02/07/95
	DJ	5	7	1	6	8	2	5	02/10/98	Hancock <i>et al.</i>	435	286.5	11/01/95
	DK	5	7	2	3	3	2	0	03/03/98	Dehlinger <i>et al.</i>	435	91.1	08/29/95
	DL	5	7	2	6	0	1	4	03/10/98	Edwards <i>et al.</i>	435	6	09/17/93
	DM	5	7	3	8	9	9	0	04/14/98	Edwards <i>et al.</i>	435	6	06/07/95
	DN	5	7	4	3	9	6	0	04/28/98	Tisone	118	683	07/26/96
	DO	5	7	4	4	1	3	1	04/28/98	Edwards <i>et al.</i>	424	78.08	06/07/95
	DP	5	7	5	6	0	5	0	05/29/98	Ershow <i>et al.</i>	422	100	05/26/95
	DQ	5	7	5	9	7	7	9	06/02/98	Dehlinger <i>et al.</i>	435	6	01/11/96
	DR	5	7	6	3	2	6	3	06/09/98	Dehlinger <i>et al.</i>	435	287	06/24/96
	DS	5	7	7	0	2	7	2	06/23/98	Biemann <i>et al.</i>	427	421	04/28/95
	DT	5	7	7	0	3	6	7	06/23/98	Southern <i>et al.</i>	435	6	02/05/96
	DU	5	7	7	0	8	6	0	06/23/98	Franzen	250	288	07/10/97
	DV	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	288	09/19/96
	DW	5	7	8	9	3	9	5	04/08/98	Abramson <i>et al.</i>	514	152	08/30/96
	DX	5	7	9	8	2	1	0	08/25/98	Canard <i>et al.</i>	435	6	11/20/95
	DY	5	8	0	7	5	2	2	09/98	Brown <i>et al.</i>	422	50	06/07/95
	DZ	5	8	2	8	0	6	3	10/27/98	Köster <i>et al.</i>	250	288	04/02/97
	EA	5	8	3	0	6	5	5	11/03/98	Monforte, <i>et al.</i>	435	6	04/26/96
	EB	5	8	4	6	7	1	7	12/8/98	Brow <i>et al.</i>	435	6	01/24/96

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FORM PTO-1449 (Modified)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	EC	5	8	5	1	7	6	5	12/22/98	Köster	435	6	05/30/95
	ED	5	8	5	3	9	8	9	12/29/98	Jeffreys et al.	435	6	05/06/96
	EE	5	8	5	4	4	8	6	12/29/98	Dreyfus	250	288	12/27/96
	EF	5	8	6	4	1	3	7	01/26/99	Becker, et al.	250	287	10/01/96
	EG	5	8	6	9	2	4	0	02/09/99	Patterson	435	6	05/19/95
	EH	5	8	6	9	2	4	1	02/09/99	Edwards et al.	435	6	06/07/95
	EI	5	8	6	9	2	4	2	10/99	Kamb	435	6	09/18/95
	EJ	5	8	7	2	0	0	3	02/16/99	Köster	435	283.1	05/30/95
	EK	5	8	7	2	0	1	0	02/16/99	Karger et al.	436	173	07/03/96
	EL	5	8	8	5	7	7	5	03/23/99	Haff et al.	435	6	10/04/96
	EM	5	8	8	5	8	4	1	03/23/99	Higgs Jr. et al.	436	89	09/11/96
	EN	5	8	8	8	7	7	8	03/30/99	Shuber	435	91.1	06/16/97
	EO	5	8	8	8	8	1	9	03/30/99	Goelet et al.	435	5	03/05/91
	EP	5	9	0	0	4	8	1	05/04/99	Lough et al.	536	55.3	11/06/96
	EQ	5	9	2	5	5	2	0	07/20/99	Tully et al.	435	6	02/14/97
	ER	5	9	2	7	5	4	7	07/27/99	Papen et al.	222	57	06/12/98
	ES	5	9	2	8	9	0	6	07/27/99	Köster et al.	435	91.2	05/09/96
	ET	5	9	2	8	9	5	2	07/27/99	Hutchins et al.	436	50	11/05/97
	EU	5	9	6	5	3	6	3	10/12/99	Monforte et al.	435	6	12/02/96
	EV	5	9	6	9	3	5	0	10/19/99	Kerley et al.	250	287	03/17/98
	EW	5	9	7	5	4	9	2	11/02/99	Brenes	251	175	07/14/97
	EX	5	9	7	6	7	9	8	11/02/99	Parker et al.	435	6	02/28/97

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	EY	5	9	8	5	3	5	6	11/16/99	Schultz <i>et al.</i>	427	8	10/18/94
	EZ	6	0	0	1	5	6	7	12/14/99	Brow <i>et al.</i>	435	6	07/12/96
	FA	6	0	0	4	7	4	4	12/21/99	Goelett <i>et al.</i>	435	5	10/11/91
	FB	6	0	0	6	1	7	1	12/21/99	Vines <i>et al.</i>	702	184	07/28/97
	FC	6	0	0	7	9	8	7	12/28/99	Cantor <i>et al.</i>	435	6	10/15/96
	FD	6	0	1	0	8	4	9	01/04/00	Edwards <i>et al.</i>	435	6	06/07/95
	FE	6	0	1	7	6	9	3	01/25/00	Yates III <i>et al.</i>	435	5	03/14/94
	FF	6	0	2	2	6	8	8	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96
	FG	6	0	2	4	9	2	5	02/15/00	Little <i>et al.</i>	422	100	01/23/97
	FH	6	0	2	5	1	9	3	02/15/00	Weiss	435	320.1	03/14/97
	FI	6	0	2	7	8	9	0	02/22/00	Ness <i>et al.</i>	435	6	07/22/97
	FJ	6	0	4	0	1	9	3	03/21/00	Winkler <i>et al.</i>	436	180	08/04/98
	FK	6	0	4	3	0	3	1	03/28/00	Köster <i>et al.</i>	435	6	03/18/96
	FL	6	0	5	1	3	7	8	04/18/00	Monforte <i>et al.</i>	435	6	03/04/97
	FM	6	0	6	0	0	2	2	05/09/00	Pang <i>et al.</i>	422	65	07/03/97
	FN	6	0	7	4	8	2	3	06/13/00	Köster	435	6	11/06/96
	FO	6	0	9	0	5	5	8	07/18/00	Butler <i>et al.</i>	435	6	09/18/98
	FP	6	1	0	4	0	2	8	08/15/00	Hunter <i>et al.</i>	250	288	05/29/98
	FQ	6	1	1	0	4	2	6	08/29/00	Shalon <i>et al.</i>	422	68.1	12/30/97
	FR	6	1	1	1	2	5	1	08/29/00	Hillenkamp	250	288	09/19/97
	FS	6	1	2	1	0	4	8	09/19/00	Zaffaroni <i>et al.</i>	436	45	10/18/94
	FT	6	1	2	4	1	2	9	09/26/00	Szafranski	435	252.33	02/06/98

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	FU	6	1	3	2	6	8	5	10/17/00	Kercso et al.	422	104	08/10/98
	FV	6	1	3	3	4	3	6	10/17/00	Köster et al.	536	24.3	09/19/97
	FW	6	1	3	6	2	6	9	10/24/00	Winkler et al.	422	61	04/21/95
	FX	6	1	4	0	0	4	5	10/31/00	Wohlstadter et al.	435	6	03/06/97
	FY	6	1	4	0	0	5	3	10/31/00	Köster	435	6	09/25/98
	FZ	6	1	4	6	8	5	4	11/14/00	Köster et al.	435	1.1	08/31/95
	GA	6	1	4	7	3	4	4	11/14/00	Annis et al.	250	281	01/19/99
	GB	6	1	8	8	0	6	4	02/13/01	Köster	250	282	01/28/99
	GC	6	1	9	4	1	4	4	02/27/01	Koster	435	6	03/18/96
	GD	6	1	9	7	4	9	8	03/06/01	Koster	435	5	3/17/95
	GE	6	2	0	7	3	7	0	03/27/01	Little et al.	435	6	09/02/97
	GF	6	2	0	7	3	9	0	03/27/01	Cantor et al.	435	7.1	10/03/97
	GG	6	2	1	4	5	5	1	04/10/01	Sanghvi et al.	435	6	07/27/98
	GH	6	2	2	1	6	0	1	04/24/01	Köster et al.	435	6	11/02/99
	GI	6	2	2	1	6	0	5	04/24/01	Köster	435	6	02/15/00
	GJ	6	2	2	5	0	6	1	05/01/01	Becker, Köster, Cantor	435	6	03/10/99
	GK	6	2	2	5	4	5	0	05/01/01	Köster	536	22.1	06/07/95
	GL	6	2	3	2	0	7	6	05/15/01	Schulz	435	6	02/04/00
	GM	6	2	3	5	4	7	8	05/22/01	Köster	435	6	04/06/99
	GN	6	2	3	8	8	7	1	05/29/01	Köster	435	6	05/08/00
	GO	6	2	5	8	5	3	8	07/10/01	Köster	435	6	04/06/99
	GP	6	2	6	5	7	1	6	07/24/01	Hunter et al.	250	288	02/29/00

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	GQ	6	2	6	8	1	3	1	07/31/01	Kang et al.	435	6	12/15/97
	GR	6	2	6	8	1	4	4	07/31/01	Köster	435	6	09/15/99
	GS	6	2	7	0	8	3	5	08/07/01	Hunt et al.	427	79	10/07/99
	GT	6	2	7	7	5	7	3	08/21/01	Köster	435	6	4/6/99
	GU	6	2	8	4	4	9	7	09/04/01	Cantor et al.	435	91.2	04/08/99
	GV	6	2	8	7	8	4	4	09/11/01	Szafranski et al.	435	252.33	02/06/98
	GW	6	3	0	0	0	7	6	10/09/01	Köster	435	6	01/31/00
	GX	6	3	0	3	3	0	9	10/16/01	Jurinke et al.	435	6	06/21/99
	GY	6	3	2	2	9	7	0	11/27/01	Little et al.	435	6	09/02/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	GZ	0	0	5	1	0	5	3	08/31/00	PCT				
	HA	0	0	5	6	4	4	6	9/28/00	PCT				
	HB	0	0	6	0	3	6	1	10/12/00	PCT				
	HC	0	1	7	5	4	6	7	03/26/86	EP				
	HD	0	1	9	6	6	0	7	12/20/01	PCT				
	HE	0	3	6	0	6	7	6	03/28/90	EP				X*
	HF	0	5	4	3	5	5	0	05/26/93	EP A1				
	HG	0	5	9	3	7	8	9	04/27/94	EP (A1)				
	HH	0	5	9	6	2	0	5	05/11/94	EP				
	HI	0	6	8	3	2	3	4	11/22/95	EP				

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	HJ	0	7	7	1	0	1	9	05/02/97	EP				
	HK	0	8	2	8	8	5	5	12/15/99	EP				
	HL	1	9	6	1	7	0	11	04/27/96	DE				X+
	HM	1	9	6	1	8	0	32	05/04/96	DE				X+
	HN	1	9	6	2	8	1	78	07/12/96	DE				X*
	HO	1	9	7	3	1	4	79	08/06/98	DE A1				X*
	HP	1	9	7	5	4	9	78	12/11/97	DE				X+
	HQ	2	0	1	7	1	0	5	03/20/79	UK				
	HR	2	2	1	5	3	9	9	08/28/90	JP				X*
	HS	2	2	3	3	6	5	4	01/16/91	GB				
	HT	2	2	6	0	8	1	1	04/28/93	GB (A)				
	HU	2	3	1	2	7	8	2	11/05/97	UK				
	HV	2	3	3	2	2	7	3	06/16/99	UK				
	HW	2	5	9	7	2	6	0	05/02/91	FR			X	
	HX	2	7	4	9	6	6	2	11/06/96	FR				X*
	HY	3	2	2	1	6	8	1	12/08/83	DE			X	
	HZ	4	1	7	8	3	5	9	06/25/92	JP A				X*
	IA	4	4	3	1	1	7	4	03/07/96	DE (A1)				X*
	IB	4	4	3	8	6	3	0	05/02/96	DE (A1)				X*
	IC	6	3	2	3	0	0	86	09/26/88	JP				X*
	ID	8	5	0	2	9	0	7	07/04/85	PCT				
	IE	8	9	0	3	4	3	2	04/20/89	PCT				

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	IF	8	9	0	6	7	0	0	07/27/89	PCT				
	IG	8	9	1	2	6	2	4	12/28/89	PCT				
	IH	8	9	1	2	6	9	4	12/28/89	PCT				
	II	9	0	0	1	5	6	4	02/22/90	PCT				
	IJ	9	1	1	1	5	3	3	01/10/91	PCT				
	IK	9	1	1	5	6	0	0	10/17/91	PCT				
	IL	9	2	0	5	2	8	7	04/02/92	PCT				
	IM	9	3	0	9	6	6	8	05/27/93	PCT				
	IN	9	3	1	5	4	0	7	08/05/93	PCT				
	IO	9	3	2	3	5	6	3	11/25/93	PCT				
	IP	9	3	2	4	8	3	4	12/09/93	PCT				
	IQ	9	4	1	6	1	0	1	07/21/94	PCT				
	IR	9	4	2	0	9	7	8	09/15/94	PCT				
	IS	9	4	2	1	8	2	2	09/29/94	PCT				
	IT	9	4	2	7	7	1	9	11/16/95	PCT				
	IU	9	4	2	8	4	1	8	12/08/94	PCT				
	IV	9	5	0	4	1	6	0	09/20/95	PCT				
	IW	9	5	0	7	3	6	1	03/16/95	PCT				X*
	IX	9	5	1	3	3	8	1	05/18/95	PCT				
	IY	9	5	1	3	5	3	8	05/18/95	PCT				
	IZ	9	5	1	5	4	0	0	06/08/95	PCT				
	JA	9	5	2	5	7	3	7	09/28/95	PCT				

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	JB	9	5	3	1	4	2	9	11/23/95	PCT				
	JC	9	5	3	5	5	0	5	12/28/95	PCT				
	JD	9	6	1	0	6	4	8	04/11/96	PCT				
	JE	9	6	1	4	4	0	6	05/17/96	PCT				
	JF	9	6	1	5	2	6	2	05/23/96	PCT				
	JG	9	6	1	7	0	8	0	06/06/96	PCT				
	JH	9	6	2	1	0	4	2	07/11/96	PCT				
	JI	9	6	2	9	4	3	1	09/26/96	PCT				
	JJ	9	6	3	0	5	4	5	10/03/96	PCT				
	JK	9	6	3	2	5	0	4	10/17/96	PCT				
	JL	9	6	3	6	9	8	7	11/21/96	PCT				
	JM	9	6	3	7	6	3	0	11/28/96	PCT				
	JN	9	7	0	8	3	0	6	03/06/97	PCT				
	JO	9	7	1	9	1	1	0	05/29/97	PCT				
	JP	9	7	3	3	0	0	0	09/12/97	PCT				
	JQ	9	7	3	7	0	4	1	10/09/97	PCT				
	JR	9	7	4	0	4	6	2	10/30/97	PCT				
	JS	9	7	4	2	3	4	8	11/13/97	PCT				
	JT	9	7	4	3	6	1	7	11/20/97	PCT				
	JU	9	8	0	3	2	5	7	01/18/98	PCT			X	
	JV	9	8	1	1	2	4	9	03/19/98	PCT				
	JW	9	8	1	2	3	5	5	03/26/98	PCT				

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Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

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	JY	9	8	1	4	9	8	2	04/09/98	PCT				
	JZ	9	8	2	0	0	1	9	05/14/98	PCT				
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	KO	9	9	5	5	7	1	8	11/04/99	PCT				
	KP	9	9	5	7	3	1	8	11/11/99	PCT				

* An English Derwent Abstract is provided.

+ An English Equivalent Patent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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KQ	"Invitation To Pay Additional Fees" with Partial International Search Report for International Application PCT/US 01/19249, dated November 11, 2002.
KR	Aberth <i>et al.</i> , "Secondary Ion Mass Spectrometry with Cesium Ion Primary Beam and Liquid Target Matrix for Analysis of Bioorganic Compounds", <i>Anal. Chem.</i> 54:2029-2034 (1982)
KS	Adler <i>et al.</i> , "Cell Membrane Coating with Glutaraldehyde: Application to a Versatile Solid-Phase Assay for Thyroid Membrane Proteins and Molecules Interacting with Thyroid Membranes", <i>Anal. Biochem.</i> , 148:320-327 (1985)
KT	Bai <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Restriction Enzyme-digested Plasmid DNA Using an Active Nafion Substrate", <i>Rapid Comm. Mass Spec.</i> 8:687-691 (1994)
KU	Bains <i>et al.</i> , "A Novel Method For Nucleic Acid Sequence Determination", <i>J. Theor Biol.</i> , 135:303-307 (1988)
KV	Bannwarth, W., "Solid-Phase Synthesis of Oligodeoxynucleotides Containing Phosphoramidate Internucleotide Linkages and their Specific Chemical Cleavage", <i>Helvetica Chimica Acta</i> , 71:1517-1527, (1988)
KW	Batista-Viera <i>et al.</i> , "A New Method for Reversible Immobilization of Thiol Biomolecules Based on Solid-Phase Bound Thiol-sulfonate Groups", <i>App. Biochem. Biotech.</i> , 31:175-195 (1991)
KX	Belanger <i>et al.</i> , "Molecular Mass and Carbohydrate Structure of Prostate Specific Antigen: Studies for Establishment of an International PSA Standard", <i>Prostate</i> 27(4):187-197 (1995)
KY	Benner <i>et al.</i> , "DNA Base-Pair Substitutions Detected in Double-Stranded DNA with Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Eur. Mass Spectrom.</i> , 1:479-485 (1995)
KZ	Berkenkamp <i>et al.</i> , "Performance of Infrared Matrix-assisted Laser Desorption/Ionization Mass Spectrometry with Lasers Emitting in the 3 μ m Wavelength Range", <i>Rapid Comm. Mass Spec.</i> , 11:1399-1406 (1997)
LA	Börnsten <i>et al.</i> , "Influence of Solvents and Detergents on Matrix-assisted Laser Desorption/Ionization Mass Spectrometry Measurements of Proteins and Oligonucleotides", <i>Rapid Comm. Mass Spec.</i> , 11:603-609 (1997)
LB	Broccoli <i>et al.</i> , "Telomerase Activity in Normal and Malignant Hematopoietic Cells", <i>Proc. Nat'l. Acad. Sci. U.S.A.</i> , 92:9082-9086 (1995)

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LC	Broude <i>et al.</i> , "Enhanced DNA Sequencing By Hybridization", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :3072-3076 (1994)
LD	Brown <i>et al.</i> , "Mass Resolution Improvement by Incorporation of Pulsed Ion Extraction in a Matrix-Assisted Laser Desorption/Ionization Linear Time-of-Flight Mass Spectrometer", <i>Anal. Chem.</i> , <u>67</u> :1998-2003 (1995)
LE	Burlingame <i>et al.</i> , "Mass Spectrometry", <i>Anal. Chem.</i> , <u>70</u> :647R-716R (1998)
LF	Busch <i>et al.</i> , "Mass Spectrometry of Large, Fragile, and Involatile Molecules", <i>Science</i> , <u>218</u> :247-254 (1982)
LG	Certified English translation of the German Patent Application DE 3221681, "Mass spectrometer with an external sample holder."
LH	Certified English translation of the PCT Patent Application WO 98/03257, "Solid supports for analytical measurement methods, their production and their use."
LI	Certified English translation of the French Patent Application FR 2597260, "A process for automatic direct introduction of samples into a mass spectrometer and a device for implementing this process."
LJ	Certified English translation of the Russian article: Elov <i>et al.</i> "RNA Synthesis by Use of T7 RNA Polymerase and Immobilized DNA in a Flowing-type Reactor", <i>Bioorganicheskaya Khimiya</i> <u>17</u> (6):789-794 (1999)
LK	Ch'ang <i>et al.</i> , "Detection of $\Delta F508$ Mutation of the Cystic Fibrosis Gene by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry", <i>Rapid Comm. in Mass Spectrom.</i> , <u>9</u> :772-774 (1995)
LL	Chait <i>et al.</i> , "Weighing Naked Proteins: Practical, High-Accuracy Mass Measurement of Peptides and Proteins", <i>Science</i> , <u>257</u> :1885-1894 (1992)
LM	Chan <i>et al.</i> , "OMS Letters", <i>Org. Mass Spec.</i> , <u>27</u> :53-56 (1992)
LN	Chee, "Enzymatic Multiplex DNA Sequencing," <i>Nucl. Acids Res.</i> <u>19</u> (12):3301-3305 (1991)
LO	Chee <i>et al.</i> , "Accessing Genetic Information with High-Density DNA Arrays", <i>Science</i> , <u>274</u> :610 (1996)
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LQ	Church <i>et al.</i> , "Multiplex DNA Sequencing," <i>Science</i> , <u>240</u> :185-188 (1988)
LR	Collins <i>et al.</i> , "A DNA Polymorphism Discovery Resource for Research on Human Genetic Variation", <i>Genome Res.</i> , <u>8</u> :1229-1231 (1998)
LS	Cornett <i>et al.</i> , "Liquid Mixtures for Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , <u>65</u> :2608-2613 (1993)
LT	Cosstick <i>et al.</i> , "Synthesis and Properties of Dithymidine Phosphate Analogues Containing 3'-thiothymidine", <i>Nucl. Acid Res.</i> , <u>18</u> :829-835 (1990)
LU	Crain <i>et al.</i> , "Applications of Mass Spectrometry to the Characterization of Oligonucleotides and Nucleic Acids", <i>Curr. Opin. Biotech.</i> , <u>9</u> :25-34 (1998)
LV	Dale <i>et al.</i> , "Graphite/Liquid Mixed Matrices for Laser Desorption/Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>68</u> :3321-3329 (1996)
LW	Dass <i>et al.</i> , "Particle Beam Induced Reactions between Peptides and Liquid Matrices", <i>Anal. Chem.</i> , <u>60</u> :2723-2729 (1988)
LX	Derwent# 009135586, WPI Acc. No. 1992-263024, citing Japanese Patent JP 4178359 A, "New anti-inflammatory tetracycline derivs. - for treating articular rheumatism, osteoarthritis, Reiter's syndrome, Lyme disease, etc."
LY	Derwent# 008415766, WPI Acc. No. 90-302767/199040, citing Japanese Patent Number JP 2215399 A, "Method for detecting DNA - includes denaturing to single strand, combining with DNA primer having corresp. base sequence forming replicator etc."
LZ	Derwent# 011458787, WPI Acc. No. 1997-436694/199741, citing German Patent Number DE 19628178 C, "Loading matrix-assisted laser desorption-ionisation sample plate for mass spectrometric analysis - using simple multi-pipette to prepare tens of thousands of samples rapidly and reliably for e.g. biochemical and genetic investigations optionally using electrophoretic concentration and delivery technique."
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MB	Derwent# 010643408, WPI Acc. No. 1996-140362/199615, citing German Patent DE 4431174 A, "Detecting tumour specific mRNA by conversion to cDNA and amplification - provides early, sensitive and specific diagnosis and monitoring, partic. by analysis of blood or sputum."

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MD	Derwent# 011635345, WPI Acc. No. 1998-052473/199805, citing French Patent Number FR 2749662 A, "Automatic laboratory for analysing samples -has robot and analysers in one chamber connected by sample transfer conveyors to second chamber with human operator access."
ME	Derwent# 008221915, WPI Acc. No. 90-108916/199015, citing European Patent Application EP 0360676 A, "Size analysis of biological mol. fragments -by mass spectrometry, esp. in nucleic acid sequencing."
MF	Derwent# 012012061, WPI Acc. No. 1998-428971/199837, citing German Patent Number DE 19731479 A, "Device for analysis of target chemicals has light emitting array -with chemical binder elements attached to capture target chemicals which change emitted light pattern accordingly."
MG	Derwent# 007678032, WPI Acc No. 88-311964/198844, citing Japanese Patent Application JP 63230086 A, "Carrier immobilising physiological active substance - comprises binding chain-form disulphide cpd. via epoxy gp. with latex contg. polymer particles."
MH	Drmanac <i>et al.</i> , "Sequencing Of Megabase Plus DNA By Hybridization: Theory Of The Method", <i>Genomics</i> , 4:114-128 (1989)
MI	Drmanac <i>et al.</i> , "DNA Sequence Determination by Hybridization: A Strategy For Efficient Large-Scale Sequencing", <i>Science</i> , 260:1649-1652 (1993)
MJ	Duchateau <i>et al.</i> , "Selection of buffers and of an ion-pairing agent for thermospray liquid chromatographic-mass spectrometric analysis of ionic compounds", <i>J. Chromatogr.</i> , 552:605-612 (1991)
MK	Eckstein, F., (Ed.). "Oligonucleotides and Analogues: A Practical Approach", <i>Oxford University Press</i> , 56-57, 137-139, 256-259, (1991)
ML	Elov <i>et al.</i> , "Synthesis of RNA using T7 RNA polymerase and immobilized DNA in a stream type reactor", <i>Bioorganicheskaia Khimiia</i> , 17(6):789-794 (1999)
MM	Fabris <i>et al.</i> , "Massive Cluster Impact Ionization on a Four Sector Tandem Mass Spectrometer", <i>J. Mass Spec.</i> , 30:140-143 (1995)

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MO	Fitzgerald <i>et al.</i> , "Basic Matrices for the Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Proteins and Oligonucleotides," <i>Analytical Chemistry</i> <u>65</u> : 3204-3211 (1993)
MP	Foster, <i>et al.</i> , "Naming Names in Human Genetic Variation Research", <i>Genome Res.</i> , <u>8</u> :755-757 (1998)
MQ	Frohman, M., "Cloning PCR Products" Chapter 12 in <i>The Polymerase Chain Reaction</i> , Mullis <i>et al.</i> , (Eds.), Birkhauser, Boston, pp. 14-37 (1994)
MR	George <i>et al.</i> , "Current Methods in Sequence Comparison and Analysis," Chapter 12 of: Macromolecular Sequencing and Synthesis, <i>Selected Methods and Applications</i> , Schlesinger (Ed.), 127-149 (1988)
MS	Gross <i>et al.</i> "Matrix-assisted laser desorption/ionisation-mass spectrometry applied to biological macromolecules" <i>Trends in Analytical Chem.</i> V 17(8-9) pp.470-484 (1998).
MT	Grotjahn, L., "Oligonucleotide Sputtering from Liquid Matrices", <i>Springer Proc. Phys.</i> , <u>9</u> :118-125 (1986)
MU	Grotjahn, L., "Sequencing of Oligodoxyribonucleotides by Negative FAB - MS", <i>Int. J. Mass Spec. Ion Phys.</i> , <u>46</u> :439-442 (1983)
MV	Haag <i>et al.</i> , "Rapid Identification and Speciation of Haemophilus Bacteria by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>J. Mass Spec.</i> , <u>33</u> (8):750-756 (1998)
MW	Hacia <i>et al.</i> , "Detection of Heterozygous Mutations in BRCA1 Using High Density Oligonucleotide Arrays and Two-Colour Fluorescence Analysis", <i>Nature Genetics</i> , <u>14</u> :441-447 (1996)
MX	Harada <i>et al.</i> , "Diethanolamine Assisted Secondary Ion Mass Spectrometry of Naturally Occurring Complex Oligosaccharides", <i>Org. Mass Spec.</i> , <u>17</u> (8):386-391 (1982)
MY	Herpich <i>et al.</i> , "HPLC of Nucleic Acid Components with Volatile Mobile Phases 1. Fast Nucleotide Separators Using Ammonium Carbonate and Ammonium Bicarbonate Gradients", <i>J. High Resolut. Chromatogr.</i> , <u>15</u> :41-42 (1992)
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NB	Jacobson <i>et al.</i> , "Applications of Mass Spectrometry to DNA Sequencing", <i>GATA</i> , <u>8(8)</u> :223-229 (1991)
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ND	Ji <i>et al.</i> , "Two-dimensional Electrophoretic Analysis of Proteins Expressed by Normal and Cancerous Human Crypts: Application of Mass Spectrometry to Peptide-mass Fingerprinting", <i>Electrophoresis</i> , <u>15</u> :391-405 (1994)
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NG	Kambara, H., "Characteristics of Molecular Secondary Ion Mass Spectrometry", <i>Springer Ser. Chem. Phys.</i> , <u>36</u> :357-362 (1984)
NH	Khrapko <i>et al.</i> , "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix", <i>J. DNA Sequencing and Mapping</i> , <u>1</u> :375-388 (1991)
NI	Khrapko <i>et al.</i> , "An oligonucleotide hybridization approach to DNA sequencing," <i>FEBS Letters</i> <u>256(1,2)</u> : 118-122 (1989)
NJ	Kim <i>et al.</i> , "Investigation of Porphyrins and Metalloporphyrins by Liquid Matrix-assisted Laser Desorption Mass Spectrometry", <i>Mikrochim Acta</i> , <u>113</u> :101-111 (1994)
NK	Kirpekar, <i>et al.</i> , "DNA Sequence Analysis by MALDI Mass Spectrometry", <i>Nucleic Acids Res.</i> , <u>26(11)</u> :2554-2559 (1998)
NL	Kolli <i>et al.</i> , "A New Matrix for Matrix-assisted Laser Desorption/Ionization of Magnetic Sector Instruments with Point Detectors", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :923-926 (1996)
NM	Köster <i>et al.</i> , "A Strategy for Rapid and Efficient DNA Sequencing by Mass Spectrometry", <i>Nat. Biotechnol.</i> , <u>14</u> :1123-1128 (1996)
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NO	Kovacik <i>et al.</i> , "Liquid Secondary Ion Mass Spectrometry of Methyl Glycosides of Oligosaccharides Using Matrices Containing Carboxamides", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :166-1667 (1996)
NP	Krishnamurthy <i>et al.</i> , "Rapid Identification of Bacteria by Direct Matrix-assisted Laser Desorption/Ionization Mass Spectrometric Analysis of Whole Cells", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :1992-1996 (1996)
NO	Krishnamurthy <i>et al.</i> , "Biomolecules and Mass Spectrometry", <i>J. of Natural Toxins</i> , <u>6</u> (2):121-162 (1997)
NR	Lagerstrom <i>et al.</i> , "Capture PCR: Efficient Amplification of DNA Fragments Adjacent to a Known Sequence in Human and YAC DNA", <i>PCR Methods and applications</i> , <u>1</u> :111-119 (1991)
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NV	Li <i>et al.</i> , "High-resolution MALDI Fourier Transform Mass Spectrometry of Oligonucleotides", <i>Anal. Chem.</i> <u>68</u> (13):2090-2096 (1996)
NW	Little <i>et al.</i> , "Mass Spectrometry from Miniaturized Arrays for Full Comparative DNA Analysis", <i>Nat. Med.</i> , <u>3</u> (12):1413-1416 (1997)
NX	Liu <i>et al.</i> , "Use of a Nitrocellulose Film Substrate in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for DNA Mapping and Screening", <i>Anal. Chem.</i> , <u>67</u> :3482-3490 (1995)
NY	Loboda <i>et al.</i> , "Extraction Pulse Generator for Time-of-flight Mass Spectrometry", <i>Rev. Sci. Instrum.</i> , <u>66</u> (9):4740-4741 (1995)
NZ	Lubman <i>et al.</i> , "Linear Mass Reflection with a Laser Photoionization Source for Time-of-flight Mass Spectrometry", <i>Anal. Chem.</i> , <u>55</u> :1437-1440 (1983)
OA	Maskos, U. and E.M. Southern, "Oligonucleotide hybridisations on glass supports: an novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Research</i> <u>20</u> (7): 1679-1684 (1992)

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	APPLICANT CANTOR et al.	
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OF	Moalem <i>et al.</i> , "Cluster formation in the Vapor Produced by laser Pulsing of the Y ₁ Ba ₂ Cu ₃ O ₇ Superconducting Solid", <i>J. of Vac. Sci. Tech.</i> , <u>10</u> (5):3292-3299 (1992)
OG	Mosca <i>et al.</i> , "Mass Spectrometry and DNA Analysis", <i>Hemoglobin</i> , <u>17</u> (3):261-268 (1993)
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OI	Naito <i>et al.</i> , "Detection of Tyrosine Hydroxylase mRNA and Minimal Neuroblastoma Cells by the Reverse Transcription-Polymerase Chain Reaction", <i>Eur. J. Cancer</i> , <u>27</u> (6):762-765 (1991)
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ON	Nordhoff <i>et al.</i> , "Comparison of IR- and UV-matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Oligodeoxynucleotides", <i>Nuc. Acids Res.</i> , <u>21</u> (13):2460-2465 (1993)

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OQ	Ordoukhanian <i>et al.</i> , "Design and Synthesis of a Versatile Photocleavable DNA Building Block. Application to Phototriggered Hybridization", <i>J. Am. Chem. Soc.</i> , <u>117</u> :9570-9571 (1995)
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PC	Sarkar <i>et al.</i> , "Human Genetic Bi-allelic Sequences (HGBASE), a Database of Intra-genic Polymorphisms", <u>93</u> (5):693-694 (1998)
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PO	Takayama, M., "1,5 Pentamediol as a Matrix for Negative-ion Fast Atom Bombardment Mass Spectrometry", <i>Org. Mass Spec.</i> , <u>26</u> :1123-1124 (1991)
PP	Tammen <i>et al.</i> , "Proteolytic Cleavage of Glucagon-like Peptide-1 by Pancreatic β Cells and by Fetal Calf Serum Analyzed by Mass Spectrometry", <i>J. Chrom. A.</i> , <u>852</u> :285-295 (1999)
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PU	Thompson, J., "Fitting Robots with White Coats", <i>Lab. Auto. Info. Manag.</i> , <u>31</u> :173-193 (1996)
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QA	Wu <i>et al.</i> , "Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , <u>66</u> :1637-1645 (1994)

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QB	Wu <i>et al.</i> , "The Ligation Amplification Reaction (LAR)--Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation", <i>Genomics</i> , <u>4</u> :560-569 (1989)
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QE	Youil <i>et al.</i> , "Screening for Mutations by Enzyme Mismatch Cleavage with T4 Endonuclease VII", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> :87-91 (1995)
QF	Zuckermann <i>et al.</i> , "Efficient Methods for Attachment of Thiol Specific Probes to the 3'-ends of Synthetic Oligodeoxyribonucleotides", <i>Nucl. Acids Res.</i> , <u>15(13)</u> :5305-5321 (1987)

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